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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 08:50:34 ON 29 AUG 2007

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 08:50:44 ON 29 AUG 2007
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STRUCTURE FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6
DICTIONARY FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>
Uploading C:\Program Files\Stnexp\Queries\Angela\Struc 1.str

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR
/ Structure 1 in file .gra /

Structure attributes must be viewed using STN Express query preparation.

=> l1

SAMPLE SEARCH INITIATED 08:50:59 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 7909 TO ITERATE

24 ANSWERS

25.3% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 152849 TO 163511
PROJECTED ANSWERS: 1314 TO 2482

L2 24 SEA SSS SAM L1

=> l1 full

FULL SEARCH INITIATED 08:51:09 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 157820 TO ITERATE

2060 ANSWERS

100.0% PROCESSED 157820 ITERATIONS
SEARCH TIME: 00.00.01

L3 2060 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\Angela\Struc 2.str

L4 STRUCTURE UPLOADED

=> d

L4 HAS NO ANSWERS

L4 STR

/ Structure 2 in file .gra /

Structure attributes must be viewed using STN Express query preparation.

=> l4

SAMPLE SEARCH INITIATED 08:51:28 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 498 TO ITERATE

25 ANSWERS

100.0% PROCESSED 498 ITERATIONS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 8622 TO 11298
PROJECTED ANSWERS: 200 TO 800

L5 25 SEA SSS SAM L4

=> l4 full

FULL SEARCH INITIATED 08:51:37 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 9557 TO ITERATE

100.0% PROCESSED 9557 ITERATIONS
SEARCH TIME: 00.00.02

638 ANSWERS

L6 638 SEA SSS FUL L4

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

344.20	344.41
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FILE 'CAPLUS' ENTERED AT 08:51:44 ON 29 AUG 2007
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FILE COVERS 1907 - 29 Aug 2007 VOL 147 ISS 10
FILE LAST UPDATED: 28 Aug 2007 (20070828/ED)

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<http://www.cas.org/infopolicy.html>

=> 13 and 16

4943 L3

1794 L6

L7 305 L3 AND L6

=> 17 and glass

754184 GLASS

L8 62 L7 AND GLASS

=> 17 and silicon

840422 SILICON

L9 51 L7 AND SILICON

=> 18 or 19

L10 101 L8 OR L9

=> d ibib abs hitstr 91-101

L10 ANSWER 91 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:523432 CAPLUS <<LOGINID::20070829>>
DOCUMENT NUMBER: 119:123432

TITLE: Manufacture of fluorine-containing hydrophobic silica films by sol-gel process
 INVENTOR(S): Tsucha, Toshio
 PATENT ASSIGNEE(S): Murakami Kaimeido KK, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05116989	A	19930514	JP 1991-175782	19910621
JP 2592018	B2	19970319		

PRIORITY APPLN. INFO.: JP 1991-175782 19910621

AB The films are formed on a substrate (***glass*** , or metal) with high bonding strength by sol-gel process from a starting material contg. water, solvent, catalyst, Si alkoxide, and F-contg. alkoxide. Preferably, the Si alkoxide is selected from Si(OC₃H₇)₄, Si(OC₂H₅)₄, Si(OC₃H₉)₄, and/or Si(OC₃H₇)₄, and the F-contg. alkoxide is selected from CF₃(CF₂)_nCH₂-CH₂SiCl₃ (n = 0, 5, 7) or CF₃(CF₂)_nCH₂-CH₂Si(OCH₃)₃ (n = 0, 5, 7).

IT ***429-60-7*** ***83048-65-1*** ***85857-16-5***

RL: USES (Uses)
 (in manuf. of fluorine-contg. hydrophobic silica films by sol-gel process, for bonding strength with substrate)

RN 429-60-7 CAPLUS

CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 3 in file .gra /

RN 83048-65-1 CAPLUS

CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 4 in file .gra /

RN 85857-16-5 CAPLUS

CN Silane, trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (CA INDEX NAME)

/ Structure 5 in file .gra /

L10 ANSWER 92 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:259795 CAPLUS <<LOGINID::20070829>>

DOCUMENT NUMBER: 118:259795

TITLE: Water-repellent products, and their manufacture

INVENTOR(S): Hirayama, Naoto; Nagayama, Hirotsugu; Takigawa, Akio; Kitaoka, Masaki

PATENT ASSIGNEE(S): Nippon Sheet Glass Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 535691	A1	19930407	EP 1992-116887	19921002
R: DE, FR, GB				
JP 05097474	A	19930420	JP 1991-257275	19911004
PRIORITY APPLN. INFO.:			JP 1991-257275	A 19911004
OTHER SOURCE(S):	MARPAT 118:259795			

AB The water-repellent products consists of a substrate and a dense SiO₂ film contg. a waterproofing agent comprising .gtoreq.1 compds. of an org. Si compd. and an org. F compd., which film is formed by contacting the substrate with a waterproofing agent-contg. aq. H₂SiF₆ soln. supersatd. in SiO₂. The waterproofing agent has general formula R₁mSiR₂n (R₁ = C₁-20-alkyl, fluoroalkyl or alkyl or fluoroalkyl contg. -O-, -CO₂-, -SO₂N(C₃H₇)-, or -CONH- in the chain; R₂ = Cl or C₁-6-alkoxy; m = 1, 2 or 3; m + n = 4). This method is esp. suitable for the manuf. of weather- and abrasion-resistant lenses and windshields of inorg. and org. ***glass***. A 4M H₂SiF₆ soln. satd. with SiO₂ gel (.apprx.20 g/L) was dild. with water to 2.5M, aged at 30.degree. for 1 h, after which a 50-wt.% soln. of heptadecafluorodecyltrimethoxysilane in EtOH in amts. of 3 cm³/300 cm³. A ***glass*** plate was immersed in the mixt. at 30.degree. for 6 h, washed with water, and dried to give a water-repellent coating having contact angle 120.degree., and 97.degree. after abrasion.

IT ***429-60-7*** ***83048-65-1***

RL: USES (Uses)
(waterproofing agent, silica gel-satd. hexafluorosilicic acid solns. contg., coating with, by immersion, of org. and inorg. lenses and windshields, for weather and abrasion resistance)

RN 429-60-7 CAPLUS

CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 6 in file .gra /

RN 83048-65-1 CAPLUS

CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 7 in file .gra /

L10 ANSWER 93 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1992:596589 CAPLUS <<LOGINID::20070829>>

DOCUMENT NUMBER: 117:196589

TITLE: Ceramic coating of nonferrous metals for hydrophobicity and endurance

INVENTOR(S): Murakami, Megumi; Uchida, Yukio; Izumi, Keiji; Tanaka, Hidetoshi; Emura, Masakazu

PATENT ASSIGNEE(S): Nisshin Steel Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04136181	A	19920511	JP 1990-256398	19900926
			JP 1990-256398	19900926

PRIORITY APPLN. INFO.:

AB The nonferrous metal is coated with a hydrophobic inorg. oxide film for endurance. The inorg. oxide film is a fluoroalkylsilane-contg. oxide of Al, Zr, Ti, Si, W, Ce, Sn, and/or Y. For coating, an org. solvent contg. .gtoreq.0.005 wt.% alkoxide, monomethylalkoxide, and/or acetylacetonate of Al, Zr, Ti, Si, W, Ce, Sn, and/or Y and 0.005-0.30 mol% (based on the above contents) fluoroalkylsilane is used and dried at 150-450.degree.. The contact angle with water of the coated inorg. oxide film is 100-119.degree..

IT ***429-60-7*** ***83048-65-1***

RL: USES (Uses)

(coating with inorg. film contg., on nonferrous metal, for hydrophobicity and endurance)

RN 429-60-7 CAPLUS

CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 8 in file .gra /

RN 83048-65-1 CAPLUS

CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 9 in file .gra /

L10 ANSWER 94 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:656270 CAPLUS <<LOGINID::20070829>>

DOCUMENT NUMBER: 115:256270

TITLE: Synthesis and properties of fluorine-containing organosilicon compounds by the reactions of vinyl- and allylsilanes with fluoroalkanoyl peroxides

AUTHOR(S): Sawada, Hideo; Gong, Yue Fa; Matsumoto, Takeo; Nakayama, Masaharu; Kosugi, Masanori; Migita, Toshihiko

CORPORATE SOURCE: Tsukuba Res. Lab., Nippon Oil Fats Co., Ltd., Tsukuba, 300-26, Japan

SOURCE: Yukagaku (1991), 40(9), 730-7
CODEN: YKGKAM; ISSN: 0513-398X

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

OTHER SOURCE(S): CASREACT 115:256270

AB Reaction of (RCO₂)₂O [I, R = C₃F₇, C₆F₁₃, CF(CF₃)OC₃F₇, CF(CF₃)OCF₂CF(CF₃)OC₃F₇] with R₁SiCH:CH₂ (R₁ = Me, MeO, EtO) gave R(CH₂CHSiR₁)_nR (n = 2,3) whereas reaction of I with R₂SiCH₂CH:CH₂ (R₂ = Me, MeO, EtO, Me₃SiO) gave R₂SiCH₂CH(OCOR)CH₂R. The synthesis of these fluorine-contg. ***silicon*** compds. is possible under mild conditions (30-40.degree. C) and products bearing alkoxy group have good

water- and oil-repellency.

IT	***135131-79-2P***	***135131-80-5P***	***135131-81-6P***
	135131-82-7P	***135131-83-8P***	***135179-25-8P***
	137425-21-9P	***137425-23-1P***	***137425-24-2P***
	137425-26-4P	***137451-32-2P***	***137451-33-3P***
	137451-34-4P	***137451-35-5P***	

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 135131-79-2 CAPLUS
CN 2,8-Dioxa-3,7-disilanonane, 4-(2,2,3,3,4,4,4-heptafluorobutyl)-6-(heptafluoropropyl)-3,3,7,7-tetramethoxy- (9CI) (CA INDEX NAME)

/ Structure 10 in file .gra /

RN 135131-80-5 CAPLUS
CN 4,7,14,17-Tetraoxaeicosane, 1,1,1,2,2,3,3,5,6,6,8,13,15,15,16,18,18,19,19,20,20,20-docosafluoro-5,8,13,16-tetrakis(trifluoromethyl)-9,11-bis(trimethoxysilyl)- (9CI) (CA INDEX NAME)

/ Structure 11 in file .gra /

/ Structure 12 in file .gra /

RN 135131-81-6 CAPLUS
CN 2,10-Dioxa-3,9-disilaundecane, 4-(2,2,3,3,4,4,4-heptafluorobutyl)-8-(heptafluoropropyl)-3,3,9,9-tetramethoxy-6-(trimethoxysilyl)- (9CI) (CA INDEX NAME)

/ Structure 13 in file .gra /

RN 135131-82-7 CAPLUS
CN 2,10-Dioxa-3,9-disilaundecane, 3,3,9,9-tetramethoxy-4-[1,2,2,2-tetrafluoro-1-(heptafluoropropoxy)ethyl]-8-[2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propyl]-6-(trimethoxysilyl)- (9CI) (CA INDEX NAME)

/ Structure 14 in file .gra /

RN 135131-83-8 CAPLUS
CN 4,7,16,19-Tetraoxadocosane, 1,1,1,2,2,3,3,5,6,6,8,15,17,17,18,20,20,21,21,22,22,22-docosafluoro-5,8,15,18-tetrakis(trifluoromethyl)-9,11,13-tris(trimethoxysilyl)- (9CI) (CA INDEX NAME)

/ Structure 15 in file .gra /

/ Structure 16 in file .gra /

RN 135179-25-8 CAPLUS
CN 2,8-Dioxa-3,7-disilanonane, 3,3,7,7-tetramethoxy-4-[1,2,2,2-tetrafluoro-1-(heptafluoropropoxy)ethyl]-6-[2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propyl]- (9CI) (CA INDEX NAME)

/ Structure 17 in file .gra /

RN 137425-21-9 CAPLUS
CN Silane, [4,4,5,5,6,6,6-heptafluoro-1(or 2)-hexenyl]trimethoxy- (9CI) (CA
INDEX NAME)

CM 1

CRN 137425-20-8
CMF C9 H15 F7 O3 Si

/ Structure 18 in file .gra /

RN 137425-23-1 CAPLUS
CN Silane, triethoxy[4,4,5,5,6,6,6-heptafluoro-1(or 2)-hexenyl]- (9CI) (CA
INDEX NAME)

CM 1

CRN 137425-22-0
CMF C12 H21 F7 O3 Si

/ Structure 19 in file .gra /

RN 137425-24-2 CAPLUS
CN Silane, trimethoxy[4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluoro-1(or
2)-nonenyl]- (9CI) (CA INDEX NAME)

CM 1

CRN 121432-32-4
CMF C12 H15 F13 O3 Si

/ Structure 20 in file .gra /

RN 137425-26-4 CAPLUS
CN Silane, triethoxy[4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluoro-1(or
2)-nonenyl]- (9CI) (CA INDEX NAME)

CM 1

CRN 137425-25-3
CMF C15 H21 F13 O3 Si

/ Structure 21 in file .gra /

RN 137451-32-2 CAPLUS
CN Butanoic acid, heptafluoro-, 3,3,4,4,5,5,5-heptafluoro-1-
[(trimethoxysilyl)methyl]pentyl ester (9CI) (CA INDEX NAME)

/ Structure 22 in file .gra /

RN 137451-33-3 CAPLUS
CN Butanoic acid, heptafluoro-, 3,3,4,4,5,5,5-heptafluoro-1-
[(triethoxysilyl)methyl]pentyl ester (9CI) (CA INDEX NAME)

/ Structure 23 in file .gra /

RN 137451-34-4 CAPLUS
CN Heptanoic acid, tridecafluoro-, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-
[(trimethoxysilyl)methyl]octyl ester (9CI) (CA INDEX NAME)

/ Structure 24 in file .gra /

RN 137451-35-5 CAPLUS
CN Heptanoic acid, tridecafluoro-, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-
[(triethoxysilyl)methyl]octyl ester (9CI) (CA INDEX NAME)

/ Structure 25 in file .gra /

L10 ANSWER 95 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:516030 CAPLUS <<LOGINID::20070829>>
DOCUMENT NUMBER: 115:116030
TITLE: Agriculture plastic films with mist-preventing effects
INVENTOR(S): Harada, Kiyoshi; Nishikata, Akira; Yamamoto, Yasushi
PATENT ASSIGNEE(S): Shin-Etsu Chemical Industry Co., Ltd., Japan; C. I.
Kasei Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03072549	A	19910327	JP 1989-175282	19890706

PRIORITY APPLN. INFO.: JP 1989-175282 19890706

AB The title films contain F-contg. org. Si compd. surfactants
R1ASiMe3-n[(OSiMe2)mZO(CxH2xO)yR]n or R1ASiMe2(OSiMe2)mZO(CxH2xO)yZ(SiMe2O)
mSiMe2AR1 (R1 = C4-20 fluoroalkyl or ether; R = H or C1-10 hydrocarbyl;
A, Z = divalent org. group; m = 0 or 1, n = 1-3, x = 2 or 3, y = 1-50).
Thus, PVC 100, DOP 45, tricresyl phosphate 3,
F17C8CH2CH2SiMe2(CH2)30(CH2CH2O)10Me (I) 0.1, and additives 7 parts were
blended and calendered to give a 100-.mu.m film having good
mist-preventing effects, vs. poor for a film without I.

IT ***133068-40-3*** ***135805-93-5***
RL: USES (Uses)
(surfactants, plastics contg., for mist-preventing agriculture films)

RN 133068-40-3 CAPLUS
CN 3,6,9,14,16,21,24,27-Octaoxa-13,15,17-trisilanonacosane-1,29-diol,
15-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-15-[[[3-[2-
[2-(2-hydroxyethoxy)ethoxy]ethoxy]propyl]dimethylsilyl]oxy]-13,13,17,17-

tetramethyl- (9CI) (CA INDEX NAME)

/ Structure 26 in file .gra /

RN 135805-93-5 CAPLUS
CN 3,6,9,14,16,21,24,27-Octaoxa-13,15,17-trisilanonacosane-1,29-diol,
15-[[[3-[2-[2-(2-hydroxyethoxy)ethoxy]ethoxy]propyl]dimethylsilyl]oxy]-
13,13,17,17-tetramethyl-15-[3,4,4,4-tetrafluoro-3-(heptafluoropropoxy)-2-
methylbutyl]- (9CI) (CA INDEX NAME)

/ Structure 27 in file .gra /

/ Structure 28 in file .gra /

L10 ANSWER 96 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:166515 CAPLUS <<LOGINID::20070829>>
DOCUMENT NUMBER: 114:166515
TITLE: Coating materials on the openings of containers for
the prevention of sagging of contents
INVENTOR(S): Takenaka, Yoshiaki
PATENT ASSIGNEE(S): Toyo Ink Mfg. Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03012467	A	19910121	JP 1989-147389	19890609
JP 2584512	B2	19970226		

PRIORITY APPLN. INFO.: JP 1989-147389 19890609

AB The title materials are low condensates of alkoxysilyl group- and F-contg.
org. Si compds. which are esp. useful on ***glass*** containers.
Thus, XC95-418 2, methanone 95, water 4.8, and AcOH 0.2 g were hydrolyzed
24 h, coated on ***glass***, and dried to prep. a coating having
contact angle with water 86.degree. and with salad oil 64.degree., vs. 23
and 16, resp., without the coating.

IT ***429-60-7D***, XC95-418, hydrolyzed ***83048-65-1***, XC95-470
RL: TEM (Technical or engineered material use); USES (Uses)
(coatings, on container openings, for preventing sagging of contents)

RN 429-60-7 CAPLUS
CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 29 in file .gra /

RN 83048-65-1 CAPLUS
CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-
heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 30 in file .gra /

L10 ANSWER 97 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1990:592978 CAPLUS <<LOGINID::20070829>>
DOCUMENT NUMBER: 113:192978
TITLE: Heat-resistant fluoropolymer composition as cladding
for optical fibers
INVENTOR(S): Yamamoto, Takashi; Matsumoto, Tsuruyoshi; Kobayashi,
Tadao; Shimada, Katsuhiko
PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 5 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
EP 357354	A2	19900307	EP 1989-308657	19890825
EP 357354	A3	19910911		
EP 357354	B1	19941026		
R: DE, GB, IT, NL				
JP 02153964	A	19900613	JP 1989-214885	19890823
JP 08019317	B	19960228		
US 5117480	A	19920526	US 1991-642567	19910118
US 5223561	A	19930629	US 1991-802858	19911206
PRIORITY APPLN. INFO.:			JP 1988-212339	A 19880829
			US 1989-398917	B1 19890828
			US 1991-642567	A3 19910118

AB A fluoro polymer compn., having good heat and thermal degrdn. resistance and processability, and useful as a cladding for optical fibers, comprises 60-99.8% copolymer of perfluoro-2,2-dimethyl-1,3-dioxole (I) with .gtoreq.1 ethylenically unsatd. monomer and 0.2-40% a compd. having hydrocarbon group contg. .gtoreq.1 F atom and .gtoreq.1 functional group selected from the group of OH, SR, CO₂H, SO, SO₂, CONH, CO₂CO, NH, CONHCO, CO₂, CN, NCO, CO, HCO₂, NH₂, SO₃H, NHHN₂, CONH₂, CH:CH₂, NH, (RO)_nX₃-nSi (R = C1-5 alkyl; n = 0-3; X halogen, C1-5 alkyl). Thus, a soln. of 100 wt. parts I-tetrafluoroethylene copolymer and 2 wt. parts 3,3,3-trifluoropropyltrimethoxysilane and Florinate FC-75 (contg. 25 wt.% solids) was coated onto the surface of a quartz ***glass*** fiber and then dried at 100.degree. to form a core cladding. The optical fiber showed a light attenuation 10.5 dB/km at 850 nm, and an increase in light attenuation of 1 dB/km after aging for 4000 h at 150.degree..

IT ***429-60-7*** ***83048-65-1***

RL: USES (Uses)

(claddings contg., for optical fibers, heat- and thermal
degrdn.-resistance)

RN 429-60-7 CAPLUS

CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 31 in file .gra /

RN 83048-65-1 CAPLUS

CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-

heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 32 in file .gra /

L10 ANSWER 98 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1990:60646 CAPLUS <<LOGINID::20070829>>
DOCUMENT NUMBER: 112:60646
TITLE: Hydrophobic coating of steel strip with an alkoxide or
acetate
INVENTOR(S): Izumi, Keiji; Deguchi, Takenori; Murakami, Megumi;
Tanaka, Hidetoshi
PATENT ASSIGNEE(S): Nisshin Steel Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01068477	A	19890314	JP 1987-226138	19870909
PRIORITY APPLN. INFO.:			JP 1987-226138	19870909
AB The steel strip is coated with .gtoreq.0.005% total of an alkoxide, Me alkoxide, and/or acetate of Al, Zr, Ti, Si, W, Ce, Sn, and/or Y by using an alc. soln. contg. 0.005-0.30 mol% fluoroalkylsilane, and then heated at .gtoreq.100.degree. to form a hydrophobic layer resistant to wear loss. The coated strip shows high contact angle with water (100-122.degree.).				
IT	***429-60-7***	***83048-65-1***	***85857-16-5***	
RL: USES (Uses) (coating with alc. soln. contg., of steel strip for hydrophobic surface)				
RN	429-60-7 CAPLUS			
CN	Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)			

/ Structure 33 in file .gra /

RN 83048-65-1 CAPLUS
CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-
heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 34 in file .gra /

RN 85857-16-5 CAPLUS
CN Silane, trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (CA
INDEX NAME)

/ Structure 35 in file .gra /

L10 ANSWER 99 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1988:533014 CAPLUS <<LOGINID::20070829>>

DOCUMENT NUMBER: 109:133014
 TITLE: Fluoroalkyl silane coating of stainless steel sheets
 INVENTOR(S): Izumi, Keiji; Deguchi, Takenori; Murakami, Megumi
 PATENT ASSIGNEE(S): Nisshin Steel Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63116783	A	19880521	JP 1986-260477	19861031
			JP 1986-260477	19861031

PRIORITY APPLN. INFO.:

AB The uncolored or colored stainless steel sheet is coated with Al, Zr, Ti, and/or Si, and then coated with a fluoroalkyl silane for resistance to finger prints. In coating, an alc. soln. contg. .gtoreq.0.005% alkoxide or acetyl acetate of the metal is used to form a film at .gtoreq.100.degree. before the silane coating. Thus, an ultrasonically degreased stainless steel sheet was dipped in iso-PrOH contg. 0.1 mol Zr acetylacetate, drawn at 2 mm/s, and heated 10 min at 200.degree. to form an OH group-contg. Zr film of .apprx.0.05 .mu.m thick. The coated sheet was dip-coated with iso-PrOH contg. 0.1 mol CF₂CH₂CH₂Si(OMe)₃ with post heating at 400.degree. for 5 min. The product resistant to finger prints showed water contact angle of 79.degree. vs. 24.degree. without the silane coating.

IT ***429-60-7*** ***83048-65-1***

RL: USES (Uses)
 (coating with, of stainless steel sheet)

RN 429-60-7 CAPLUS

CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 36 in file .gra /

RN 83048-65-1 CAPLUS

CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 37 in file .gra /

L10 ANSWER 100 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1987:516636 CAPLUS <<LOGINID::20070829>>
 DOCUMENT NUMBER: 107:116636
 TITLE: Poly(phenylene sulfide) compositions
 INVENTOR(S): Yamaguchi, Toshihide; Izutsu, Hitoshi
 PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61296063	A	19861226	JP 1985-137672	19850626
JP 06027263	B	19940413		

PRIORITY APPLN. INFO.: JP 1985-137672 19850626

AB Title compns. with excellent mech. and elec. properties, fluidity on molding, and adhesion to metals, useful as a potting material for electronic parts, printed circuit boards, and as connectors for elec. parts and instruments, contain poly(phenylene sulfide) (I), fibrous and/or silicate fillers, and perfluoroalkyl-contg. functional silane compds. Thus, I [inherent viscosity 0.14 (0.4 g/100 mL concd. .alpha.-chloronaphthalene, 206.degree.) 30, ***glass*** fibers (length 0.5 mm) 20, fused silica (II) 50, and trifluoroethyltrimethoxysilane (III) 0.8 part were mixed, melt kneaded, and pelletized to obtain a compn. with melt viscosity 600 P (330.degree., 10 g/cm² extrusion pressure). Test pieces therefrom showed peel strength 0.7 kg/cm and vol. resistivity 1 .times. 10¹⁶ (dry) and 1 .times. 10¹⁵ .OMEGA.-cm in the pressure cooker test (121.degree., 2 atm, 100 h), compared with 0.1 kg/cm and 1 .times. 10¹⁶ and 8 .times. 10¹² .OMEGA.-cm, resp., for test pieces from a compn. (melt viscosity 1000 P) contg. talc and N-(.beta.-aminoethyl)-.gamma.-aminopropyltriethoxysilane instead of II and III, resp.

IT ***101947-16-4*** ***110338-18-6*** , Trifluoroethyltrimethoxysilane
 RL: USES (Uses)
 (coupling agents, poly(phenylene sulfide) potting compns. contg., with good mech. and elec. properties)

RN 101947-16-4 CAPLUS

CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)- (CA INDEX NAME)

/ Structure 38 in file .gra /

RN 110338-18-6 CAPLUS

CN Silane, trimethoxy(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

/ Structure 39 in file .gra /

L10 ANSWER 101 OF 101 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1986:191664 CAPLUS <<LOGINID::20070829>>

DOCUMENT NUMBER: 104:191664

TITLE: Low reflectance transparent material having antisoiling properties

INVENTOR(S): Matsuo, Masashi; Yamagishi, Nobuyuki; Noshiro, Makoto; Jitsugiri, Yukio; Ohnishi, Keiichi

PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 42 pp.
 CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 166363	A2	19860102	EP 1985-107552	19850619

EP 166363	A3	19861230		
EP 166363	B1	19910807		
R: DE, FR, GB				
JP 61010043	A	19860117	JP 1984-129992	19840626
JP 03023493	B	19910329		
JP 61215235	A	19860925	JP 1985-53317	19850319
JP 61241143	A	19861027	JP 1985-82169	19850419
JP 05070655	B	19931005		
CA 1257513	A1	19890718	CA 1985-484686	19850620
US 4687707	A	19870818	US 1986-939296	19861205
PRIORITY APPLN. INFO.:			JP 1984-129992	A 19840626
			JP 1985-53317	A 19850319
			JP 1985-82169	A 19850419
			US 1985-746406	A1 19850619

AB Antisoiling low reflectance (<1.6%) coating materials as multilayers on
 glass substrates are composed of a .ltoreq.0.3 .mu. metal oxide
 condensate layer and a .ltoreq.0.2 .mu. per- or polyfluorocarbosilane
 condensate layer prepd. by hydrolysis in an alc. solvent. Thus, a
 glass plate was undercoated by dipping in a mixt. contg. Si(OEt)4
 29.5, Ti(OBu)4 47.2, acetyl acetone 20.5, water 11.0, AcOH (1%) 2.1, EtOAc
 1.8, EtOH 157.8, and n-BuOH 81.0 wt. parts, withdrawing at 11 cm/min,
 drying, curing 30 min at 540.degree. to thickness 0.14 .mu. and n 1.80,
 dipping in 2% aq. HF 1 min, withdrawing, drying, and dipping in a reaction
 mixt. contg. (OMe)3SiC2H4C6F12C2H4Si(OMe)3 11.7, C9F19C2H4Si(OMe)3 5.1,
 Si(OMe)4 3.8, 1% aq. AcOH 4.4, di-Bu tin dilaurate 0.1, and tert-BuOH
 275.1 wt. parts, withdrawing at 4 cm/min, and heating 2 h at 160.degree..
 The top coating had a thickness 0.09 .mu. and a n 1.40.

IT ***102116-01-8D*** , condensation products with silanes
 102116-04-1D , condensation products with
 fluoroocetylbi(trimethoxysilane and Me silicate
 RL: USES (Uses)
 (antireflective-antisoiling optical coating materials contg.)

RN 102116-01-8 CAPLUS
 CN Silane, trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-
 nonadecafluoroundecyl)- (9CI) (CA INDEX NAME)

/ Structure 40 in file .gra /

RN 102116-04-1 CAPLUS
 CN Silane, trimethoxy[3,4,4,4-tetrafluoro-3-(trifluoromethyl)butyl]- (9CI)
 (CA INDEX NAME)

/ Structure 41 in file .gra /

=> 17 and CVD
 73133 CVD
 L11 9 L7 AND CVD

=> d ibib abs hitstr 1-9

L11 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:1265880 CAPLUS <<LOGINID::20070829>>
 DOCUMENT NUMBER: 147:217655

TITLE: Vapor phase modification of sol-gel derived titania (TiO2) surfaces
AUTHOR(S): Piwonski, Ireneusz; Ilik, Aneta
CORPORATE SOURCE: Department of Chemical Technology and Environmental Protection, University of Lodz, Lodz, 90-236, Pol.
SOURCE: Applied Surface Science (2006), 253(5), 2835-2840
CODEN: ASUSEE; ISSN: 0169-4332
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB ***CVD*** method was used in TiO2 surface modification. TiO2 layers were obtained in sol-gel process and prepd. as thin films on Si wafers in dip-coating method. To define the influence of modification on TiO2 surface properties (e.g., friction), various types of fluoroalkylsilanes were used. The effectiveness of the modification was monitored by FTIR spectroscopy. The topog. and frictional measurements were studied using at. force microscopy (AFM).
IT ***429-60-7*** , (3,3,3-Trifluoropropyl)trimethoxysilane
101947-16-4 , 1H,1H,2H,2H-Perfluorodecyltriethoxysilane
RL: NUU (Other use, unclassified); USES (Uses)
(vapor phase modification of sol-gel derived titania (TiO2) surfaces)
RN 429-60-7 CAPLUS
CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 42 in file .gra /

RN 101947-16-4 CAPLUS
CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)- (CA INDEX NAME)

/ Structure 43 in file .gra /

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:492684 CAPLUS <<LOGINID::20070829>>
DOCUMENT NUMBER: 143:28195
TITLE: Antisoiling thin films and their formation by atmospheric plasma ***CVD***
INVENTOR(S): Arita, Hiroaki; Kudo, Kazuyoshi; Saito, Atsushi
PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005146324	A	20050609	JP 2003-383496	20031113
PRIORITY APPLN. INFO.:			JP 2003-383496	20031113
OTHER SOURCE(S):		MARPAT 143:28195		
AB		The films showing surface resistivity 1 .times. 1012 .OMEGA./ .box. at		

23.degree. and relative humidity 55%, are formed by feeding gases contg. .gtoreq.10 vol.% N and organometallic compds. bearing fluoroorg. groups into into plasma, and exposing substrates to the excited gases. Uniform films showing good water repellency, oil repellency, and durability are formed by the above process.

IT ***429-60-7*** ***83048-65-1*** ***521084-64-0***
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PROC (Process)
 (formation of antisoiling thin films by atm. plasma ***CVD*** of
 gases contg. N and organometallic compds. bearing fluoroorg. groups)
RN 429-60-7 CAPLUS
CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 44 in file .gra /

RN 83048-65-1 CAPLUS
CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-
 heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 45 in file .gra /

RN 521084-64-0 CAPLUS
CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-
 heptadecafluorodecyl)tripropoxy- (9CI) (CA INDEX NAME)

/ Structure 46 in file .gra /

L11 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:322625 CAPLUS <<LOGINID::20070829>>
DOCUMENT NUMBER: 142:374920
TITLE: Laminates with good interlayer adhesion and their
 manufacture
INVENTOR(S): Tejima, Katsuya
PATENT ASSIGNEE(S): Dainippon Printing Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.
 CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2005096312	A	20050414	JP 2003-334289	20030925
PRIORITY APPLN. INFO.:			JP 2003-334289	20030925

OTHER SOURCE(S): MARPAT 142:374920

AB In title laminates comprising polymer substrates having hydrophilic surface groups, adhesion-improvement layers, and functional layers, the adhesion-improvement layers are obtained from self-assembled thin-film-forming substances having .gtoreq.1 groups for adsorption of self-assembled thin films and .gtoreq.1 groups for orientation of mols. to give self-assembled thin films. The hydrophilic groups of the film-forming substances substitute for the orientation groups. The

laminates are manufd. by (1) irradiating the substrates with energy for surface modification, (2) forming self-assembled thin films by ***CVD***, (3) substituting the orientation groups by the hydrophilic groups for removal of the orientation groups, and (4) forming functional layers on the resulting adhesion-improvement layers. The laminates are useful for packaging or display materials. Thus, a laminate comprising a PET substrate, a layer of self-assembled octadecyltrimethoxysilane thin film, and a SiO₂ gas-barrier layer showed 0 permeability .ltoreq.1 mL/m²-day and water vapor permeability .ltoreq.1 g/m²-day.

IT ***18395-30-7*** , Isobutyltrimethoxysilane ***51851-37-7*** ,
 (Tridecafluoro-1,1,2,2-tetrahydrooctyl)triethoxysilane ***101947-16-4***
 , (Heptadecafluoro-1,1,2,2-tetrahydrodecyl)triethoxysilane
 RL: TEM (Technical or engineered material use); USES (Uses)
 (self-assembled, adhesion-improvement layers; manuf. of laminates with
 good adhesion between polymer substrates and functional layers)
 RN 18395-30-7 CAPLUS
 CN Silane, trimethoxy(2-methylpropyl)- (CA INDEX NAME)

/ Structure 47 in file .gra /

RN 51851-37-7 CAPLUS
 CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (CA
 INDEX NAME)

/ Structure 48 in file .gra /

RN 101947-16-4 CAPLUS
 CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-
 heptadecafluorodecyl)- (CA INDEX NAME)

/ Structure 49 in file .gra /

L11 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:209979 CAPLUS <<LOGINID::20070829>>
 DOCUMENT NUMBER: 142:306128
 TITLE: Optical instruments having crack-free uniform
 antisoiling surface layers and chemical vapor
 deposition apparatus for manufacturing them
 INVENTOR(S): Kudo, Kazuyoshi; Arita, Hiroaki; Saito, Atsushi
 PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 36 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2005062522	A	20050310	JP 2003-293123	20030813
PRIORITY APPLN. INFO.:			JP 2003-293123	20030813
OTHER SOURCE(S):	MARPAT	142:306128		
AB	The optical instruments (e.g., lenses) have antisoiling layers prepd. in			

these steps: (i) introducing discharge gases (e.g., N) into discharge spaces (formed with high-frequency elec. field) to excite at around atm. pressure, (ii) bringing them into contact with source gases of organometallic compds. having F-contg. org. groups in spaces other than the discharge spaces to give indirectly excited gases, and (iii) exposing (metal oxide-surfaced) substrates to the gases. The organometallic compds. may be $R_1(R_2R_3MO)_jMR_4R_5R_6$ ($M = Si, Ti, Ge, Zr, Sn$; $R_1-R_6 = H$, monovalent group; $j = 0-150$), $R_1(R_2R_3MNR_7)_jMR_4R_5R_6$ ($M, R_1-R_6, j = \text{same as above}$; $R_7 = H, \text{alkyl}$), $[RfX(CH_2)_kY]mMR_8n(OR_9)_p$ ($M = In, Al, Sb, Y, La$; $Rf = \text{fluoroalkyl, fluoroalkenyl}$; $X = \text{linking group, divalent group}$; $Y = \text{linking group}$; $O = \text{alkyl, alkenyl, aryl}$; $R_8 = \text{alkyl, alkenyl, aryl}$; $R_9 = \text{alkyl, alkenyl}$; $k = 0-50$; $m + n + p = 3$; $m \geq 1$; $n, p = 0-2$), $Rf_1(OC_3F_6)m_1O(CF_2)n_1(CH_2)p_1Z(CH_2)q_1SiR_{23}$ ($Rf_1 = C_1-16 \text{ perfluoroalkyl}$; $R_2 = \text{hydrolyzable group}$; $Z = OCONH, O$; $m_1 = 1-50$; $n_1 = 0-3$; $p_1 = 0-3$; $q_1 = 1-6$; $0 < n_1 + p_1 \leq 6$), and/or $Rf[O(CF_2)_3]a[OCF(CH_3)CF_2]b[OCF_2]c[OCF_2CF_2]dOCZF(CF_2)e[CH_2CY[(CH_2)mSiR_{21}nR_{22}]]pX$ ($Rf = C_1-16 \text{ perfluoroalkyl}$; $X = I, H$; $Y = H, \text{lower alkyl}$; $Z = F, CF_3$; $R_{21} = \text{hydrolyzable group}$; $R_{22} = H, \text{inactive monovalent org. group}$; $a, b, c, d = 0-200$; $e = 0, 1$; $m, n = 0-2$; $p = 1-10$). Also claimed are deposition app. having a pair of opposed electrodes forming the discharge spaces, discharge gas suppliers, source gas suppliers, means for applying voltage between the electrodes, and substrate holders.

IT ***429-60-7*** ***83048-65-1*** ***101947-16-4***
 RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (source gases; optical lenses having crack-free uniform antisoiling surface layers and chem. vapor deposition app. for manufg. them)
 RN 429-60-7 CAPLUS
 CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 50 in file .gra /

RN 83048-65-1 CAPLUS
 CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 51 in file .gra /

RN 101947-16-4 CAPLUS
 CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)- (CA INDEX NAME)

/ Structure 52 in file .gra /

L11 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:718814 CAPLUS <<LOGINID::20070829>>
 DOCUMENT NUMBER: 141:252343
 TITLE: Manufacture of organic thin-film transistors
 INVENTOR(S): Hirai, Katsura; Kita, Hiroshi; Arita, Hiroaki
 PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan
 SOURCE: PCT Int. Appl., 81 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004075279	A1	20040902	WO 2004-JP1705	20040217
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1596428	A1	20051116	EP 2004-711711	20040217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1751385	A	20060322	CN 2004-80004225	20040217
PRIORITY APPLN. INFO.: JP 2003-39535 A 20030218				
WO 2004-JP1705 W 20040217				
AB	An org. thin-film transistor device with high carrier mobility and a method for manufg. such a device are disclosed. The org. thin-film transistor was characterized in that it comprises a thin film which is produced by ***CVD*** using a reaction gas and whose surface has a contact angle of pure H2O .gtoreq.50.degree. and an org. semiconductor layer formed on the thin film.			
IT	***681-97-0*** ***83048-65-1***			
	RL: RCT (Reactant); RACT (Reactant or reagent) (formation of base layers in manuf. of org. thin-film transistors)			
RN	681-97-0 CAPLUS			
CN	Silane, triethoxy(3,3,3-trifluoropropyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)			

/ Structure 53 in file .gra /

RN 83048-65-1 CAPLUS
CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 54 in file .gra /

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:271350 CAPLUS <<LOGINID::20070829>>
DOCUMENT NUMBER: 140:293288
TITLE: Pattern-mounted macromolecular supports, their fabrication, and functional devices including the same
INVENTOR(S): Tejima, Katsuya; Takai, Osamu; Sugimura, Hiroyuki; Inoue, Yasushi
PATENT ASSIGNEE(S): Dainippon Printing Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004098351	A	20040402	JP 2002-260405	20020905
			JP 2002-260405	20020905

PRIORITY APPLN. INFO.:

AB In the process, macromol. supports are exposed to high energy rays to possess fine unevenness of roughness 5-200 nm on surface, coated with highly repellent layers at 1-150-nm thickness by vapor deposition, and exposed patternwise to high-energy rays in reactive atm. to have hydrophilic patterns. The repellent layers may be org. Si materials SixOyCzH.alpha. and the hydrophilic layers may be silica. The repellent layers may be SAM (self-assembled monolayer) adsorbed on the supports with functional groups patternwise converted to hydroxyl groups. Color filters having pixel elements arranged along with the thus-formed patterns and printed circuit boards having metal wirings along with the thus-formed patterns, are sep. claimed.

IT ***18395-30-7*** , Isobutyltrimethoxysilane ***51851-37-7*** ,
(Tridecafluoro-1,1,2,2-tetrahydrooctyl)triethoxysilane ***101947-16-4***
, (Heptadecafluoro-1,1,2,2-tetrahydrodecyl)triethoxysilane
RL: CPS (Chemical process); PEP (Physical, engineering or chemical
process); TEM (Technical or engineered material use); PROC (Process); USES
(Uses)
(self-assembled, partially hydrophilized; formation of high-contrast
wettability patterns on macromol. supports by high-energy exposure for
functional device fabrication)

RN 18395-30-7 CAPLUS

CN Silane, trimethoxy(2-methylpropyl)- (CA INDEX NAME)

/ Structure 55 in file .gra /

RN 51851-37-7 CAPLUS

CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (CA
INDEX NAME)

/ Structure 56 in file .gra /

RN 101947-16-4 CAPLUS

CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-
heptadecafluorodecyl)- (CA INDEX NAME)

/ Structure 57 in file .gra /

L11 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:506568 CAPLUS <<LOGINID::20070829>>

DOCUMENT NUMBER: 139:89063

TITLE: Surface-modified composites and their production

INVENTOR(S): Hebenstreit, Juergen; Hoyer, Thomas; Voigt, Ingolf;
Voigtsberger, Baerbel

PATENT ASSIGNEE(S): Hermsdorfer Institut Fuer Technische Keramik E.V.,

SOURCE: Germany
 Ger. Offen., 6 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10163646	A1	20030703	DE 2001-10163646	20011221
PRIORITY APPLN. INFO.:			DE 2001-10163646	20011221

AB The surface-modified composite, which is water-repellent, dirt-repellent, antiadherent, wear-resistant, corrosion-resistant, and elec. insulating, consists of 3 component parts (1) a metal, plastic, or ceramic substrate, (2) a porous ceramic, metal, or cermet coating produced by plasma spraying, thermal spraying, powder sintering, deposition from a gas phase (e.g., ***CVD***, PVD), deposition from a liq. phase (e.g., sol-gel technique), or electroplating, and (3) an inorg.-org. nanocomposite material which fills out pores of the layer 2 and form a top coating layer. Porosity of the layer 2 is 2-35%, and pore diam. is 10 nm-10 .mu.m. The nanocomposite materials may be deposited in the form of a liq. precursor which is then dried and hardened (e.g., by UV light or microwaves). The composites are esp. suitable for exterior linings in building industries.

IT ***2550-02-9***, Propyltriethoxysilane
 RL: TEM (Technical or engineered material use); USES (Uses)
 (in nanocomposite layer for surface-modified composites)
 RN 2550-02-9 CAPLUS
 CN Silane, triethoxypropyl- (CA INDEX NAME)

/ Structure 58 in file .gra /

IT ***429-60-7***, (3,3,3-Trifluoropropyl)trimethoxysilane
 51851-37-7, Tridecafluoro-1,1,2,2-tetrahydrooctyl)triethoxysilane
 101947-16-4, Heptadecafluoro-1,1,2,2-tetrahydrodecyl)triethoxysilane
 RL: TEM (Technical or engineered material use); USES (Uses)
 (water- and dirt repellent in nanocomposite layer for surface-modified composites)
 RN 429-60-7 CAPLUS
 CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 59 in file .gra /

RN 51851-37-7 CAPLUS
 CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (CA INDEX NAME)

/ Structure 60 in file .gra /

RN 101947-16-4 CAPLUS
 CN Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-

heptadecafluorodecyl)- (CA INDEX NAME)

/ Structure 61 in file .gra /

L11 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:713127 CAPLUS <<LOGINID::20070829>>
DOCUMENT NUMBER: 133:301735
TITLE: Formation and patterning of organic monomolecular film
INVENTOR(S): Shimoda, Tatsuya; Miyashita, Satoru; Takai, Osamu;
Sugimura, Hiroyuki
PATENT ASSIGNEE(S): Seiko Epson Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000282240	A	20001010	JP 1999-94349	19990331
JP 3879312	B2	20070214		

PRIORITY APPLN. INFO.: JP 1999-94349 19990331
AB A method for forming an org. monomol. film involves cleaning the surface of a substrate, making the surface hydrophilic, and depositing a fluorinated alkylsilane monomol. film on the substrate by a ***CVD*** method. A method for patterning the monomol. film involves patternwise irradiation with a UV light or electron beam. A lithog. method is also described, which uses the patterned monomol. film as a resist film of an etching stopper.
IT ***429-60-7*** , 3,3,3-Trifluoropropyltrimethoxysilane ***83048-65-1***
1*** , Heptadecafluoro-1,1,2,2-tetrahydrodecyltrimethoxysilane
85857-16-5 , Tridecafluoro-1,1,2,2-tetrahydrooctyltrimethoxysilane
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(***CVD*** and patterning of fluoroalkylsilane monomol. film for lithog. resist as etching stopper)
RN 429-60-7 CAPLUS
CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 62 in file .gra /

RN 83048-65-1 CAPLUS
CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 63 in file .gra /

RN 85857-16-5 CAPLUS
CN Silane, trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (CA INDEX NAME)

/ Structure 64 in file .gra /

L11 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:622716 CAPLUS <<LOGINID::20070829>>

DOCUMENT NUMBER: 127:310357

TITLE: Coating of transparent water-repellent thin films by plasma-enhanced ***CVD***

AUTHOR(S): Takai, Osamu; Hozumi, Atsushi; Sugimoto, Nobuhisa

CORPORATE SOURCE: Department of Materials Processing Engineering, Nagoya University, Chikusa-ku, Nagoya, 464-01, Japan

SOURCE: Journal of Non-Crystalline Solids (1997), 218, 280-285
CODEN: JNCSBJ; ISSN: 0022-3093

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Transparent water-repellent thin films are prep'd. by radio-frequency (rf) and microwave plasma-enhanced ***CVD*** (PECVD) methods using organosilicon compds. and fluoro-alkyl silanes (FASs) as source gases. First we prep. the water-repellent films by using three kinds of FASs by rf PECVD. The obtained contact angles depend on the length of perfluoro-alkyl groups (-CnF2n+1-, n = 1, 6 and 8) in FASs. The max. contact angle is about 108.degree. which is comparable to that for polytetrafluoroethylene (PTFE). Next we prep. the water-repellent films by mixing FAS and trimethylmethoxysilane (TMMOS) using microwave PECVD. The films consist of silicon oxide contg. C-F and Si-CH3 bonds and has high water repellency. The fluorine concn. at the surface does not relate directly to the contact angle. The films prep'd. by both PECVD methods are transparent in the visible region. PECVD is a suitable technique to prep. transparent water-repellent thin films at low substrate temps. (below 100.degree.C).

IT ***429-60-7*** ***83048-65-1*** ***85857-16-5***

RL: PEP (Physical, engineering or chemical process); PROC (Process)
(precursor; coating of transparent water-repellent thin films by plasma-enhanced ***CVD***)

RN 429-60-7 CAPLUS

CN Silane, trimethoxy(3,3,3-trifluoropropyl)- (CA INDEX NAME)

/ Structure 65 in file .gra /

RN 83048-65-1 CAPLUS

CN Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)trimethoxy- (CA INDEX NAME)

/ Structure 66 in file .gra /

RN 85857-16-5 CAPLUS

CN Silane, trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (CA INDEX NAME)

/ Structure 67 in file .gra /

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> E US 2004-765366/AP, PRN 25

E1	4	US2004-765361/AP
E2	1	US2004-765365/PRN
E3	1 -->	US2004-765366/AP
E4	0	US2004-765366/PRN
E5	1	US2004-765369/PRN
E6	1	US2004-765372/AP
E7	1	US2004-765373/AP
E8	1	US2004-765373/PRN
E9	1	US2004-765375/AP
E10	1	US2004-765375/PRN
E11	1	US2004-765380/AP
E12	1	US2004-765384/AP
E13	1	US2004-765386/AP
E14	1	US2004-765388/AP
E15	1	US2004-765388/PRN
E16	1	US2004-765390/AP
E17	1	US2004-765396/PRN
E18	1	US2004-765397/AP
E19	1	US2004-765397/PRN
E20	2	US2004-765401/AP
E21	1	US2004-765402/AP
E22	1	US2004-765402/PRN
E23	1	US2004-765405/AP
E24	1	US2004-765405/PRN
E25	3	US2004-765406/AP

=> S E3

L12 1 US2004-765366/AP

=> DIS L12 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.18 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:674693 CAPLUS <<LOGINID::20070829>>

DN 141:168967

TI Development of substrate surface modification methods for biochemical immobilization in biochips

IN Kim, Hun-Ki; Lee, Jung-Suk; Lim, Geun-Bae; Lee, Young-Sun

PA Samsung Electronics Co., Ltd., S. Korea

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2004229663	A	20040819	JP 2004-18353	20040127
	KR 2004069063	A	20040804	KR 2003-5486	20030128
	EP 1452232	A2	20040901	EP 2004-1606	20040126
	EP 1452232	A3	20050720		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

US 2004185480	A1	20040923	US 2004-765366	20040127 <--
CN 1519562	A	20040811	CN 2004-10005810	20040128
PRAI KR 2003-5486	A	20030128		

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
121.67	466.08

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-15.60	-15.60

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